Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	25-Feb-2023
Tested Date	4-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	7	8.24	150*150*150	2441.48	307.00	0.0225	13.64	13.82	13.81
2	20	7	8.36	150*150*150	2477.04	311.00	0.0225	13.82		
3	20	7	8.53	150*150*150	2527.41	315.00	0.0225	14.00		
4	20	7	8.26	150*150*150	2447.41	306.00	0.0225	13.60	13.81	
5	20	7	7.82	150*150*150	2317.04	308.00	0.0225	13.69		
6	20	7	7.94	150*150*150	2352.59	318.00	0.0225	14.13		

Results: 7-days Compressive strength of M20 Concrete is 13.81 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	6
Casting Date	25-Feb-2023
Tested Date	4-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	7	8.34	150*150*150	2471.11	309.00	0.0225	13.73	13.91	13.90
2	20	7	8.46	150*150*150	2506.67	313.00	0.0225	13.91		
3	20	7	8.63	150*150*150	2557.04	317.00	0.0225	14.09		
4	20	7	8.36	150*150*150	2477.04	308.00	0.0225	13.69	13.90	
5	20	7	7.92	150*150*150	2346.67	310.00	0.0225	13.78		
6	20	7	8.04	150*150*150	2382.22	320.00	0.0225	14.22		

Results: 7-days Compressive strength of M20 Concrete is 13.90 N/mm2

Comments: 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	1
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	7.53	150*150*150	2231.11	466.00	0.0225	20.71	20.52	20.58
2	20	28	7.59	150*150*150	2248.89	463.00	0.0225	20.58		
3	20	28	8.49	150*150*150	2515.56	456.00	0.0225	20.27		
4	20	28	7.57	150*150*150	2242.96	470.00	0.0225	20.89	20.64	
5	20	28	8.62	150*150*150	2554.07	464.00	0.0225	20.62		
6	20	28	8.47	150*150*150	2509.63	459.00	0.0225	20.40		

Results: 28-days Compressive strength of M20 Concrete is 20.58 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	2
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	7.69	150*150*150	2278.52	464.00	0.0225	20.62	20.43	20.49
2	20	28	7.88	150*150*150	2334.81	461.00	0.0225	20.49		
3	20	28	7.92	150*150*150	2346.67	454.00	0.0225	20.18		
4	20	28	7.94	150*150*150	2352.59	468.00	0.0225	20.80	20.55	
5	20	28	8.01	150*150*150	2373.33	462.00	0.0225	20.53		
6	20	28	8.16	150*150*150	2417.78	457.00	0.0225	20.31		

Results: 28-days Compressive strength of M20 Concrete is 20.49 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	3
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.01	150*150*150	2373.33	466.00	0.0225	20.71	20.52	20.58
2	20	28	8.07	150*150*150	2391.11	463.00	0.0225	20.58		
3	20	28	8.97	150*150*150	2657.78	456.00	0.0225	20.27		
4	20	28	8.05	150*150*150	2385.19	470.00	0.0225	20.89	20.64	
5	20	28	8.10	150*150*150	2400.00	464.00	0.0225	20.62		
6	20	28	7.95	150*150*150	2355.56	459.00	0.0225	20.40		

Results: 28-days Compressive strength of M20 Concrete is 20.58 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	4
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.11	150*150*150	2402.96	468.00	0.0225	20.80	20.61	20.67
2	20	28	8.17	150*150*150	2420.74	465.00	0.0225	20.67		
3	20	28	9.07	150*150*150	2687.41	458.00	0.0225	20.36		
4	20	28	8.15	150*150*150	2414.81	472.00	0.0225	20.98	20.73	
5	20	28	8.20	150*150*150	2429.63	466.00	0.0225	20.71		
6	20	28	8.05	150*150*150	2385.19	461.00	0.0225	20.49		

Results: 28-days Compressive strength of M20 Concrete is 20.67 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	5
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength (N/mm2)
1	20	28	8.20	150*150*150	2429.63	470.00	0.0225	20.89	20.70	20.76
2	20	28	8.26	150*150*150	2447.41	467.00	0.0225	20.76		
3	20	28	9.16	150*150*150	2714.07	460.00	0.0225	20.44		
4	20	28	8.24	150*150*150	2441.48	474.00	0.0225	21.07	20.81	
5	20	28	8.29	150*150*150	2456.30	468.00	0.0225	20.80		
6	20	28	8.14	150*150*150	2411.85	463.00	0.0225	20.58		

Results: 28-days Compressive strength of M20 Concrete is 20.76 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	M20 Concrete for Road
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Concrete
Sample No	6
Casting Date	25-Feb-2023
Tested Date	25-Mar-2023

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	8.30	150*150*150	2459.26	472.00	0.0225	20.98	20.79	20.84
2	20	28	8.36	150*150*150	2477.04	469.00	0.0225	20.84		
3	20	28	9.26	150*150*150	2743.70	462.00	0.0225	20.53		
4	20	28	8.34	150*150*150	2471.11	476.00	0.0225	21.16	20.90	
5	20	28	8.39	150*150*150	2485.93	470.00	0.0225	20.89		
6	20	28	8.24	150*150*150	2441.48	465.00	0.0225	20.67		

Results: 28-days Compressive strength of Concrete is 20.84 N/mm2

Comments: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
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Project Management Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New pos office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04

Job No: MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR

Contractor Sri R. Lokesh

Sl. No	Particulars of the Tests	T.M.T Steel of Fe500D Grade			
		Quantity in Kgs	Frequency of Tests	Tests Required	Tests Carried Out
I	Steel				
1	Tensile strength test	7.23	1 sample per source	1	1

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

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CONSULTANTS

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Test Report
Steel

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	T.M.T Steel of Fe500D Grade
Contractor	Sri R. Lokesh
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Site
Material	T.M.T Steel of Fe500D Grade
Tested Date	16-Oct-2022

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm^2	Average Ultimate Tensile Stress N/mm^2	Elongation in (%)	Bending and Rebending
1	8	0.395	0.395	27.51	547.00	546.00	16	OK
	8	0.395		27.41	545.00			
2	10	0.617	1.395	42.59	542.00	542.50	16	OK
	10	0.617		42.66	543.00			

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Yelahanka Zone
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Project Management Consultancy Services

Summary of Frequencies of Field Tests and Lab Tests Conducted

Name of the work: Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04

Job No: MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR

Contractor Sri R. Lokesh

Sl. No	Particulars of the Tests	Wet Mix Macadam (WMM)			
		Quantity Cum	Frequency of Tests	Tests Required	Tests Carried Out
1	Rate of Spread of Prime Coat	1833.77	3 Test / Day	6	6
1	Aggregate Impact Value		1 Test / 1000 m^3	2	2
2	Combined Flakiness & Elongation Indices		1Test / 500 m^3	4	4
3	Aggregate gradation		1Test / 200 m^3	10	10
4	Atterberg limits		1Test / 200 m^3	10	10
5	Density of Compacted Layer		1 Test / 1000m^2	2	2

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

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Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Prime Coat)
Sample No	1
Tested Date	25-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.665	1.664	1.664
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.025	0.024	0.024
6	Rate of spread (d/a)	kg / m^2	0.625	0.600	0.600
7	Average	kg / m^2	0.608		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.608 kg / m2

Note:

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Prime Coat)
Sample No	2
Tested Date	25-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.665	1.663	1.666
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.025	0.023	0.026
6	Rate of spread (d/a)	kg / m^2	0.625	0.575	0.65
7	Average	kg / m^2	0.617		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.617 kg / m2

Note:

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Primer Coat)
Sample No	3
Tested Date	25-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.663	1.664	1.664
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.023	0.024	0.024
6	Rate of spread (d/a)	kg / m^2	0.575	0.6	0.6
7	Average	kg / m^2	0.600		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.600 kg / m2

Note:

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Prime Coat)
Sample No	4
Tested Date	27-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.666	1.664	1.665
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.026	0.024	0.025
6	Rate of spread (d/a)	kg / m^2	0.650	0.600	0.625
7	Average	kg / m^2	0.625		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.625 kg / m2

Note:

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Prime Coat)
Sample No	5
Tested Date	27-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.664	1.666	1.663
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.024	0.026	0.023
6	Rate of spread (d/a)	kg / m^2	0.600	0.650	0.575
7	Average	kg / m^2	0.608		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.608 kg / m2

Note:

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Test Report
Rate of Spread of Prime Coat

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Location	At Site
Material	Emulsion (Prime Coat)
Sample No	6
Tested Date	27-Jan-2023

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.64	1.64	1.64
4	Final weight of plate after application of Tack Coat (c)	kg	1.665	1.665	1.664
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.025	0.025	0.024
6	Rate of spread (d/a)	kg / m^2	0.625	0.625	0.6
7	Average	kg / m^2	0.617		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat is: 0.617 kg / m2

Note:

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Test Report
Aggregate Impact Value

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kempchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanmahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanka Zone
Job No	MCTPL/BBMP/ER PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Material	Coarse Aggregate
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Sample No	1
Sample Collection Date	18-Oct-2022
Tested Date	19-Oct-2022

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1337	1343
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	377	383
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	91	92
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	286	291
6	Aggregate Impact Value (w4 / w3)x100	%	24.14	24.02
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **24.08** %

Note:

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Test Report
Aggregate Impact Value

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	2
Date	18-Jan-2023

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1332	1349
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	372	389
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	94	89
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	278	300
6	Aggregate Impact Value (w4 / w3)x100	%	25.27	22.88
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **24.07 %**

Note:

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Test Report
Aggregate Particle Shape

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Coarse Aggregates
Sample No	1
Sample Collection Date	18-Oct-2022
Tested Date	19-Oct-2022

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	37.13	19.5	0	58.5	0
31.5	25	61.23	16.95	0	-	0
25	20	1448.63	13.5	128.63	40.5	146.63
20	16	1406.23	10.8	85.23	32.4	112.23
16	12.5	955.36	8.55	150.36	25.6	157.36
12.5	10	522.14	6.75	124.14	20.2	130.14
10	6.3	258.36	4.89	80.36	14.7	87.36
	SW	4689.08	SWf	568.72	SWe	633.72

Flakiness Index 12.13 %
Elongation Index 13.51 %
Combined Flakiness and Elongation Indices : 25.64 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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Test Report
Aggregate Particle Shape

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Date	19-Oct-2022

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	39.13	19.5	0	58.5	0
31.5	25	63.23	16.95	0	-	0
25	20	1452	13.5	132	40.5	150
20	16	1395	10.8	74	32.4	101
16	12.5	964	8.55	159	25.6	166
12.5	10	562	6.75	164	20.2	170
10	6.3	252	4.89	74	14.7	81
	SW	4727.36	SWf	603	SWe	668

Flakiness Index 12.76 %
Elongation Inde 14.13 %
Combined Flakiness and Elongation Indices : 26.89 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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Test Report
Aggregate Particle Shape

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	3
Date	18-Jan-2023

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	34.13	19.5	0	58.5	0
31.5	25	58.23	16.95	0	-	0
25	20	1442	13.5	122	40.5	140
20	16	1385	14.5	64	41.5	91
16	12.5	954	15.5	149	42.5	156
12.5	10	552	16.5	154	43.5	160
10	6.3	242	17.5	64	44.5	71
	SW	4667.36	SWf	553	SWe	618

Flakiness Index 11.85 %
Elongation Index 13.24 %
Combined Flakiness and Elongation Indices : 25.09 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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Test Report
Aggregate Particle Shape

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	4
Date	18-Jan-2023

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	39.13	19.5	0	58.5	0
31.5	25	63.23	16.95	0	-	0
25	20	1432	13.5	112	40.5	130
20	16	1375	10.8	54	32.4	81
16	12.5	944	8.55	139	25.6	146
12.5	10	542	6.75	144	20.2	150
10	6.3	232	4.89	54	14.7	61
	SW	4627.36	SWf	503	SWe	568

Flakiness Index 10.87 %
Elongation Index 12.27 %
Combined Flakiness and Elongation Indices : 23.14 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:
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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Coarse Aggregates
Sample No	1
Sample Collection Date	18-Oct-2022
Tested Date	19-Oct-2022

Weight of Sample: 11093.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	234.85	2.12	2.12	97.88	95-100	
3	22.4	2285.34	20.6	22.72	77.28	60-80	
4	11.2	2256.31	20.34	43.06	56.94	40-60	
5	4.75	2185.36	19.7	62.76	37.24	25-40	
6	2.36	1452.96	13.1	75.86	24.14	15-30	
7	0.6	582.69	5.25	81.11	18.89	8-22	
8	0.075	1635.96	14.75	95.86	4.14	0-5	

Note:

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Laboratory
Material	Coarse Aggregates
Sample No	2
Sample Collection Date	18-Oct-2022
Tested Date	19-Oct-2022

Weight of Sample: 11143.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	225	2.02	2.02	97.98	95-100	
3	22.4	2719.2	24.4	26.42	73.58	60-80	
4	11.2	2108.64	18.92	45.34	54.66	40-60	
5	4.75	2184.26	19.6	64.94	35.06	25-40	
6	2.36	1529.1	13.72	78.66	21.34	15-30	
7	0.6	590.24	5.3	83.96	16.04	8-22	
8	0.075	1409.65	12.65	96.61	3.39	0-5	

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	3
Date	19-Oct-2022

Weight of Sample: 11187.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	232	2.07	2.07	97.93	95-100	
3	22.4	2726.2	24.37	26.44	73.56	60-80	
4	11.2	2115.64	18.91	45.35	54.65	40-60	
5	4.75	2191.26	19.59	64.94	35.06	25-40	
6	2.36	1536.1	13.73	78.67	21.33	15-30	
7	0.6	597.24	5.34	84.01	15.99	8-22	
8	0.075	1416.65	12.66	96.67	3.33	0-5	

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	4
Date	18-Jan-2023

Weight of Sample: 10992.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	228	2.07	2.07	97.93	95-100	
3	22.4	2722.2	24.77	26.84	73.16	60-80	
4	11.2	2111.64	19.21	46.05	53.95	40-60	
5	4.75	2187.26	19.9	65.95	34.05	25-40	
6	2.36	1532.1	13.94	79.89	20.11	15-30	
7	0.6	593.24	5.4	85.29	14.71	8-22	
8	0.075	1412.65	12.85	98.14	1.86	0-5	

Note:

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	5
Date	18-Jan-2023

Weight of Sample: 10958.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	231.5	2.11	2.11	97.89	95-100	
3	22.4	2725.7	24.87	26.98	73.02	60-80	
4	11.2	2115.14	19.3	46.28	53.72	40-60	
5	4.75	2190.76	19.99	66.27	33.73	25-40	
6	2.36	1535.6	14.01	80.28	19.72	15-30	
7	0.6	596.74	5.45	85.73	14.27	8-22	
8	0.075	1416.15	12.92	98.65	1.35	0-5	

Note:

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	6
Date	18-Jan-2023

Weight of Sample: 11023.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	233	2.11	2.11	97.89	95-100	
3	22.4	2727.2	24.74	26.85	73.15	60-80	
4	11.2	2116.64	19.2	46.05	53.95	40-60	
5	4.75	2192.26	19.89	65.94	34.06	25-40	
6	2.36	1537.1	13.94	79.88	20.12	15-30	
7	0.6	598.24	5.43	85.31	14.69	8-22	
8	0.075	1416.65	12.85	98.16	1.84	0-5	

Note:

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	7
Date	7-Feb-2023

Weight of Sample: 11058.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	231	2.09	2.09	97.91	95-100	
3	22.4	2725.2	24.64	26.73	73.27	60-80	
4	11.2	2114.64	19.12	45.85	54.15	40-60	
5	4.75	2190.26	19.81	65.66	34.34	25-40	
6	2.36	1535.1	13.88	79.54	20.46	15-30	
7	0.6	596.24	5.39	84.93	15.07	8-22	
8	0.075	1414.65	12.79	97.72	2.28	0-5	

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Test Report
Aggregate Gradation

Project Name	Package-5 (1) Improvements of Road Adjacent to Yelahanka Lake from Kenchenahalli to Chowdeshwari Temple in Ward No.02 (2) Improvements and Asphalting to New post office main road and cross roads in ward No. 01 (3) Improvements and Asphalting to Sugappa layout cross roads in ward No. 01 (4) Improvements and Asphalting to Shanimahathma swamy temple road and Surabhi layout 2nd main and cross roads in ward No. 01 (5) Asphalting to Balance roads in A & B sector of Yelhanka New Town in Ward No. 04
Client	Executive Engineer - Project Division Yelahanha Zone
Job No	MCTPL/BBMP/EE PD-YZ/PMC/P-3158/2022-23/QR
Mix Type	Wet Mix Macadam (WMM)
Contractor	Sri R. Lokesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Wet Mix Plant
Material	Coarse Aggregates
Sample No	8
Date	7-Feb-2023

Weight of Sample: 10938.00 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	53	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Wet Mix macadam
2	45	235.5	2.15	2.15	97.85	95-100	
3	22.4	2729.7	24.96	27.11	72.89	60-80	
4	11.2	2119.14	19.37	46.48	53.52	40-60	
5	4.75	2194.76	20.07	66.55	33.45	25-40	
6	2.36	1539.6	14.08	80.63	19.37	15-30	
7	0.6	600.74	5.49	86.12	13.88	8-22	
8	0.075	1419.15	12.97	99.09	0.91	0-5	

Note:

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